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## FINAL FULLER LECTURE OF THE YEAR HELD UNDER DIRECTION OF Y. M. C. A.

Mr. Charles Stelzle's Subject was "What Causes Social Unrest" and It Was Received with Wide Acclaim

### IRVING GARTRELL AND HENRY FRANKLIN ELECTED CAPTAINS OF BASKETBALL AND SWIMMING

Before the largest audience of recent months, Charles Stelzle, mechanic, minister, labor arbitrator, and author, delivered the concluding Fuller lecture of the year last Tuesday. His subject was, "What Causes Social Unrest?" In his opinion social unrest is merely a healthy sign of progress.

Wright Manvell presided. Certificates were awarded to swimming, track, and basketball players. After the assembly the basketball and swimming teams met to elect captains for next year. Irving Gartrell will lead the hoopsters, and Henry Franklin will captain the mermen.

President Earle, in introducing Mr. Stelzle, told of his history. Mr. Stelzle has worked in East Side New York machine shops, and is well acquainted with the workman's point of view. Although he never attended a theological school, he was ordained a Presbyterian minister. He is now head of the labor department of the Presbyterian Church. He tells of his life in his autobiography, "A Son of the Bowery." Often he is called in by labor or capital leaders as a strike arbitrator. For the last decade he has devoted much of his time to lecturing and writing to the youth of the country. When he discusses labor questions, he knows whereof he speaks.

Mr. Stelzle began his speech with a short discussion of social trends in Europe. "I have been in Europe several times recently," he said, "and have noticed nothing so much as the fight for" (Continued on Page 2, Col. 3)

## CHEMISTS STAGE MONTHLY MEETING

Ratkiewicz, Rhodes and Tashjian are Speakers

The Skept Chymists held their first meeting this month in the Salisbury Laboratories on May 11, 1932. The meeting was called to order by the vice-president, Mr. Sellw. After the routine business procedure, the speakers of the evening were introduced.

The first speaker was Mr. V. T. Ratkiewicz, '34, who spoke on "Detection of Zinc." He started by telling of the flaws in the present method for the qualitative detection of zinc. He said that the present method, the precipitation of the zinc as zinc sulphide (ZnS) is poor, because zinc sulphide is a comparatively soluble salt. Mr. Ratkiewicz then went on to tell of the newer methods that are used to detect even minute quantities of zinc. He told of several methods, and their application to the analytical laboratory. There is the Montague test, a test that involves the use of the dye diethylaniline, and the detection of zinc by Rinman's green.

Mr. Ratkiewicz concluded his talk by telling of the tests suitable for beginners in chemistry. These tests must be delicate, have ease of operation, and have comparatively simple reactions.

The second speaker was Mr. R. W. Rhodes, '34, who spoke on "An Outline of Micro-Chemistry." As the title implies, he gave a clear and interesting outline of the possibilities of chemical analysis on a minute scale. He said (Continued on Page 2, Col. 4)

### CALENDAR

#### TUESDAY, MAY 17:

11:50 A. M.—Senior Class Meeting, M. E. Lecture Room.

4:00 P. M.—Baseball Game, Tech vs. Arnold, at Tech.

#### WEDNESDAY, MAY 18:

3:00 P. M.—Tennis Match, Tech vs. Springfield, at Springfield.

6:00 P. M.—Interfraternity Baseball, A.T.O. vs. T.U.O.

#### THURSDAY, MAY 19:

3:00 P. M.—Golf Match, Tech vs. Amherst, at Amherst.

6:00 P. M.—Interfraternity Baseball, P.S.K. vs. S.A.E.

#### FRIDAY, MAY 20:

10:00 A. M.—N. E. I. A. A. at Providence, Continued.

6:00 P. M.—Interfraternity Baseball, T.X. vs. T.U.O.

#### SATURDAY, MAY 21:

10:00 A. M.—N. C. I. A. A. at Providence Continued.

3:00 P. M.—Baseball Game, Tech vs. Clark, at Clark.

3:00 P. M.—Tennis Match, Tech vs. Clark, at Tech.

#### MONDAY, MAY 23:

4:30 P. M.—Interfraternity Baseball, P.G.D. vs. Friars.

6:00 P. M.—Interfraternity Baseball, A.T.O. vs. P.S.K.

## FROSH ADVISORS PLEASE GROUPS

Profs. Gray and Merriam Give Advisors Good Time

Prof. H. J. Gray extended invitations to all of his advisees for an informal party to be held at his home at 7 Belvidere Avenue at six P. M., Saturday, May 7. Following the dinner the guests socialized about the professor's home until it was time to go to the Masque, which they attended in a body.

Impeccably clad and somewhat nervous, the advisees arrived at the professor's right on time.

After a lively game of indoor polo, which helped develop an appetite, they were shown into the dining room and served a dinner fit for royalty. The "piece de resistance" was an immense steak, fully an inch thick and done to a turn.

Prof. Gay sat at one end of the table while Prof. F. J. Adams did the honors from the other end. On each student's plate there was a card bearing his name. The reverse side of the card bore a heading such as "School Spirit, Sophomore Class Notes, Dormitory Antics," etc. Each student was furnished with a pencil and informed that the TECH NEWS had lost all their copy and that they were to write a short article on the subject assigned. The students assented with great hilarity, exchanging their cards with their neighbors after finishing their articles. The cards were then read, furnishing a great deal of amusement.

On Saturday, Prof. K. G. Merriam also entertained his group of Freshmen fledglings with a trip to Mt. Monadnock. This excursion included a good old-fashioned hot-dog roast. The group of about 15 Freshmen and Prof. Merriam left Saturday before dinner via

## MASQUE PRESENTATION OF "TECH SPRING REVUE" IS HUGE SUCCESS

Various Skits, Songs, and Dance Acts Combine to Make the Evening a Very Pleasant One

## ANNUAL SOPH HOP TO BE HELD SOON

Perley Stevens will be Band for Brilliant Affair

The annual Sophomore Hop, held each year near the close of school will take place this year on Friday, May 27th, in Sanford Riley Hall. As is customary, it will be one of the last of Tech's social functions during the term. For music, the committee, composed of E. H. Osborne, chairman, J. L. Gould, P. W. Booth, W. R. Burns, D. J. Dwinell, H. B. Bell, W. J. Denning, Jr., W. H. Davenport, and R. P. Hook, have succeeded in obtaining Perley Stevens and his orchestra, direct from one of Boston's popular clubs. However, an orchestra does not make the entire success of a dance. The committee also promises, besides a superior orchestra, some new and novel atmosphere as is possible in so popular a place as Sanford Riley Hall. At present, the plans are not entirely complete but the committee will do its best to make the Sophomore Hop the best dance held on the Hill. In regard to the subscription price, it also has been lowered in accord with other Tech functions. The price of a ticket will be \$2.50 instead of the usual \$3.00, and are now on sale by all members of the committee.

automobile and went directly to Keene. The cars were left at the foot of the mountain and everyone made the trip to the top. En route the hot-dogs were cooked and eaten. A good time was had by all.

## OSBORNE, SANDERSON, WHITFORD, MANVEL, PORTEUS AND SODANO ARE SOME OF THE BIG STARS

Tuckerman Hall, last Saturday night, was the scene of the annual Masque presentation. A well-filled hall of appreciative playgoers acclaimed the performance from the very first act to the final curtain, marking up another success in the list of the Masque performances.

Following the show, the audience retired to Dean Hall, located just beneath Tuckerman Hall, in the building housing the Worcester Woman's Club, for dancing.

At 8:30 P. M. the curtain arose for the first number of the show, a skit entitled, "It Might Have Happened." Gordon S. Swift, clad in female attire, made a very presentable young lady indeed. In fact, he was so presentable that one could not help blaming Cal Paige, the man from the wide open spaces, from attempting a flirtation with him. Cal, it appeared had just arrived in the big city of New York and anxious to become a Don Juan, asks the first well-dressed stranger he meets as to the whys and wherefores as to making the acquaintance of some beautiful young lady. The stranger advises him to go to Seventy-second Street but Cal gets on an express by mistake and lands at Ninety-sixth Street. However, he strides forth in search of romance. He strikes up a flirtation with the first pretty girl he sees, Gordon Swift, and is invited to her apartment. Everything goes along fine until the unexpected arrival of friend husband, played by Wright Man-

(Continued on Page 6, Col. 1)

## FRESHMAN-SOPHOMORE RIVALRIES AIRED IN HOSTILE CLASHES

Two Lower Classes Feel Effect of Spring Fever and Go on Rampage Following Attack on Sophomore

After having laid dormant for many months, hostilities suddenly flared forth last week between the Freshman and Sophomore classes. With mixed feelings of delight, and disgust, the faculty and upper classes watched the lower classmen wage unrelenting warfare, rivaling in intensity the Sino-Japanese conflict.

It all started over a pair of red corduroy pants sported by one Blank, '34. Tuesday at 12:20 P. M. the Frosh Class was assembled on the gym steps for their class picture. While the photographer kept arranging and rearranging them, the attention of the Frosh was irresistibly drawn to Mr. Blank as he gaily pranced about the tennis court, flaunting as it were the flaming nether apparel.

Human nature can stand so much and no more. The picture concluded,

the entire class by mutual consent and in unison marched forward with a grim determined glint in their eyes. In column of two and formation which would have delighted the heart of a drill sergeant, they wheeled into the court, surrounded their victim, fell upon him and tore off his pants with a sadistic pleasure.

Waving the pants in triumphant glory, the Frosh marched away leaving Mr. Blank exposed pantless to the entire campus. Though he ranted, raged and raved, his pants did not return and finally realizing his undignified position, sprinted to the gym at a speed which would have made Charlie Paddock look like a piker.

Heedless of the shouts and cries of their victim, the Frosh bore their trophy into the Dorm, went aloft and tied it securely on the outstretched arm of

(Continued on Page 2, Col. 4)

## CLASS OF 33'S PROMENADE CLIMAXES SOCIAL ACTIVITIES OF JUNIOR WEEK

"Mickey" Alpert and His Seaglades Orchestra, the Striking Programs and Favors Augment the Gaiety

Last Friday evening marked the climax of the social activities of the undergraduate classes when the Juniors held their Junior Prom. The setting for this glamorous affair was the old favorite, Bancroft Hotel, and the orchestra was one everyone knew and enjoyed to the utmost. "Mickey" Alpert and his Seaglades orchestra supplied the harmonious strains to which those fortunate enough to attend, danced until a late hour Saturday morning.

The programs that the committee had secured were novel to say the least and aroused much favorable comment. They were gray and red, with a month representing each dance and some saying and skit typical of the month standing for each dance. The favor that was presented to each couple consisted of a necklace with a birthstone

representing the month in which the woman was born.

Mickey was at his best. His singing made almost everyone want to put all of their troubles far back in their minds and relax and just live at the moment. His men were all supreme and the solos that were rendered surely were appreciated by the dancers. Many times they were not satisfied with the short selections and recalled the artists to the front for more.

The patrons and patronesses for the evening were: Admiral and Mrs. Ralph Earle, Prof. and Mrs. H. F. Taylor, Prof. and Mrs. T. H. Morgan, Mr. and Mrs. J. E. Fitzgerald, who were kept busy receiving the many dancers.

The committee that had charge of the dance consisted of J. Roy Driscoll, chairman, Leighton Jackson, Franklin (Continued on Page 4, Col. 2)



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## ALLAN GUSTAF ASHTON

It was a great shock to everyone here at Tech to learn from Sunday morning's paper that Mr. Ashton, for two years an instructor in the Chemistry Department, had passed away the night before. Few out of those in his own department knew that he was sick and even they did not realize that it was so serious. After a strenuous afternoon in the laboratory a week ago Wednesday he failed to put in an appearance the following morning, and his classes were informed that he had suffered a nervous breakdown which would confine him for at least two weeks. The breakdown quickly developed into pneumonia which altogether too soon claimed him a victim.

One cannot help but think that Mr. Ashton's death could not possibly have been more untimely. He had pursued his graduate studies for nearly two years and was to have received his degree of Master of Science at the Commencement exercises next month. He had spent a large part of his time on his thesis on corrosion and was fast bringing it to a conclusion when sickness prevented his returning to the laboratory. During the absence of Dr. Jennings, Mr. Ashton was ably managing the laboratory course in organic chemistry. He was a true disciple of the head of his department and was carrying on the course in the same way as would Dr. Jennings had he been here. Mr. Ashton, or "Al" as his students were wont to call him, also had several classes in freshman laboratory.

It would be putting it mildly to say that he was popular with his students, for besides being an instructor to them he was also a friend. In or out of class he always maintained his friendly manner. At times his requirements or standards in the laboratory seemed rather strict, but they were enforced in such a manner that instead of decreasing a student's liking for him they increased one's respect. During both his graduate and undergraduate days on the Hill he was an officer in the Skeptical Chymists, and his was a powerful influence in keeping up a lively interest in that organization.

His students will remember Mr. Ashton as a good instructor, a true friend, a staunch supporter of Tech, and a devoted follower of his chosen life's work, chemistry.

## THE AWAKENING

The revival of class rivalry between the Freshmen and Sophomores which started last Tuesday was a distinct gratification to most of the student body. For over a year now there had been a general feeling among the students that active class contests at Tech, except under strict supervision, had been effectually banned. However, stories of such contests in past years continue to find appreciative audiences and thus the spark of class spirit never quite died out.

In spite of all the advantages which were claimed for limiting rivalry between the Sophomores and Freshmen to athletic contests, a rope-pull, and a supervised paddle rush, there was general resentment among the students when the free-for-all paddle rush was abolished and the goat's head competition was practically abolished by putting it under such arbitrary rulings. No argument, however sensible, is strong enough to appease the desire of college students for an occasional good free-for-all scrap between classes. They would much prefer to seem unreasonable than to open themselves to the merest hint of an accusation that they are becoming sissified.

Bearing this in mind it is not difficult to explain the attitude which the student body took after Minerva had been draped in a Sophomore's pants by Freshmen. It was generally acknowledged that two worthy deeds had been accomplished. The pants had been disposed of, and a healthy class rivalry had been awakened. Even the battle of eggs and fruit the following day on the gym steps was frowned upon by few of the students except Sophomores. Something drastic like that seemed necessary to make up for all the time that class rivalry had remained dormant.

At this point, however, student approval must come to an end. Damaging of a wonderfully equipped dormitory can not be justified by the need for class rivalry. It is regrettable that this otherwise comparatively harmless display of class spirit had to culminate in such a manner. It may be the means of defeating the cause which the Freshmen have so nobly championed by influencing the Institute authority to put class competition under even more stringent rules.

It is to be hoped that this will not be the case because the result might very likely be a similar outburst in a year or two. The most likely remedy would seem to be more freedom for interclass scraps where no damage can be done to Institute property.

## ECONOMY AT TECH

Economy seems to be the principal topic of the day. In newspapers, in magazines, over the radio, and in lecture halls, the word is continually flaunted at us. Thus the necessity of the closest possible scrutiny of expenditures in the home, in business, in local, state, and federal governments has been forcibly brought to our attention. Since this principle is being applied almost universally its adoption at Tech would not be out of place. Even in the best of times the student body at Tech is composed of fellows who have none too much money, and at the present time there are very few who would not appreciate even a small reduction in the cost of their education. Up to the present, however, practically the sole manifestation of economy on the Hill has been in the reduced price of dance tickets.

One item of student expenses which presents promising possibilities of savings is that of books and supplies. Nearly every department has at least one course which requires the purchase of a textbook that is not absolutely necessary. Every Tech man can recall at least one instance, and probably more, when he has been told to purchase a book which he subsequently used not more than two or three times. This is a tolerable grievance in ordinary times and with low priced books, but it should not be allowed now, especially in the case of books costing in the neighborhood of five dollars. With a more careful planning of courses several such books could be done away with.

The changing of textbooks might well be discouraged for the time being. It is not generally advisable to sell old books, but now necessity may be stronger than advisability in many cases.

While the prices in most stores have been declining, those in the Book Store seem to have remained the same. Its prices for supplies were formerly slightly below those of downtown stores but owing to the general downward trend in other places, Book Stores prices are in many cases considerably higher than those quoted by other stationery stores. The fact that this undertaking originally started to save money for Tech students, annually contributes large sums of money for campus improvements shows that it operates at a considerable margin of profit. This is an excellent means of obtaining funds for such improvement in ordinary times, but conditions at present do not warrant this method. A continuance of it will be an inducement for students to buy as many as possible of their supplies at the downtown stores as long as their prices remain lower.

Doubtless there are many other means of economy possible for Tech students, and those occurring to anyone may well be submitted in the form of an article for the Open Forum.

## ASSEMBLY

(Continued from Page 1, Col. 1)

democracy, in one form or another. People have always fought for some kind of freedom. First it was religious freedom, then political, educational, racial, and finally industrial freedom. The people will win, as they always have won. The masses are coming to their own. Industrial democracy, I believe, is the greatest movement of modern civilization.

"The working man was never better off than today—when working; yet he has never been more radical. Social unrest is steadily increasing. What causes it—labor leaders? No. They are the result, not the cause, of social unrest. I also discount the unequal distribution of wealth as a cause, since that has always existed. The causes of social unrest, I think, are public libraries, art galleries, universities, advertising, prohibition, and the church.

"I do not mean that workers go to the libraries and read books on radicalism. To the contrary, they interest themselves on books about government, politics, and economics. Art galleries make their lives broader, richer, fuller. Universities also help to give the workers larger views of life.

"Advertising causes social unrest by making people long for things they haven't got. Bruce Barton could start a better revolution than any Russian alive. Prohibition causes discontent among the workers, because it sobers them to reality. Just before the Russian revolution, the czar abolished vodka. The people sobered up and abolished the czar. The church has also caused social unrest wherever its missionaries have gone.

"There is much that you engineers, as future plant managers, can do. You can develop confidence, foster cooperation and frank, open discussion of questions with your men. You can be big enough to confess that you are wrong; you can practice absolute justice. You can supply the human element so often lacking in factories. And finally, you can show your men that you are a man. Once you have done this, your labor troubles will be solved."

## SKEP CHYMISTS

(Continued from Page 1, Col. 2)

that all chemical analysis can be carried out in fractions of milligrams, if the proper instruments are at hand. Mr. Rhodes said that most large scale preparation and purification methods can be adopted by the micro-scale by the use of simple apparatus. One of the important pieces of apparatus is an accurate and sensitive balance. He told of several types of balances, some of which are accurate to 0.00001 to 0.000005 milligrams. Mr. Rhodes went on to describe the micro-procedure for various different processes. Mr. Rhodes concluded by saying that micro-chemistry is increasing in popularity, and that these time-saving and efficient methods of analysis might soon be universally employed and taught.

The last speaker was Mr. M. G. Tashjian, '34, who spoke on the "Development and Theory of Ammonia Synthesis." He gave a short, but interesting talk on the early work in the synthesis of ammonia.

Since, in this process, the catalyst is the most important item, Mr. Taskjian devoted most of his talk to this subject. He said that the efficiency of a catalyst depends on its purity, that is, freedom from such poisons as sulphur, phosphorous, tellurium, selenium, and arsenic. Mere traces of these elements will poison a catalyst, and destroy its efficiency.

It was found that elementary catalysts such as pure iron, can be improved by the addition of traces of other elements. Mr. Tashjian devoted the rest of his talk to the composition and reactions with different types of catalysts.

The meeting was closed at this point, and refreshments were enjoyed by all.

## SOPHS VS. FROSH

(Continued from Page 1, Col. 2)

the statue of Minerva which crowns the top of the Dorm.

The Sophomores, when news of this incident spread among them, regarded it with mixed feelings. As the majority of them viewed it, Blank, being an exalted Sophomore, should not have been set upon by the lowly Frosh. But

it appeared that the red pants in question had been somewhat of a temptation to them as well as the Frosh.

But the Frosh emboldened by their success and drunk with the glory of victory decided to add insult to injury. The very next day as the Sophs were assembled on the gym steps for their class picture, a detachment of Frosh drove up and laid down a heavy barrage of rotten eggs. Enraged, the Sophs charged forward undeterred by the hail of eggs which pelted them on the head, face, and body. According to the Sophs the Frosh were put to ignominious flight, abandoning their ammunition. According to the Frosh, that class merely made a strategic retreat to draw the Sophs onward and get them into the range of their heavy artillery. Be that as it may, the Frosh retreat, the Sophs captured some of their ammunition and directed it at their former owners. The Frosh withdrew into their dormitory, making a stand on the steps. At the precise moment the overlooking windows of the dorm were open and the heavy artillery brought into play, namely nine fire hoses spouting copious streams of cold water. Evidently the hose handlers were moved to pity by the sight of the egg bespattered Sophs and sought to clean them.

Furiously battling onward, the Sophs opened a breach in the Freshman line and effected an entrance to the dormitory. Determinedly the Freshmen stood by with their hoses, eggs and what nots to repel invaders and drive the foe out of their sacred domain. The battle waged furiously through the dorm. When it was halted, both sides claimed victory. The Sophs claim there were only about twenty of them who invaded the dorm. As the entire Soph class, consisting of over 100, had been assembled for the picture, surely there must have been more than twenty active participants. Of course it is unbelievable that all but twenty of the doughty Soph Class were terrorized by the lowly Frosh and fled as soon as hostilities started.

However, the results speak for themselves. The Freshmen, after the battle, were jubilant and showed fewer signs of combat than the enemy. Of course they were responsible in a large measure for any damage done to the dorm and would have to shoulder the expense of repair, but that was only a minor item.

On the other hand, the Sophs departed still enraged and vowing blood-thirsty vengeance. And retaliation came that very night. A strong delegation of Sophs, manning three cars, suddenly swooped down on the dorm, bearing off three surprised and astounded inhabitants before the rest of the dorm knew what was going on. The unhappy Frosh victims were stripped of their clothing and clad only in their B. V. D.'s or just a scanty pair of drawers were thrust forth on the busiest street intersection of the city.

When the news of this outrage spread among the dorm residents they turned out to a man, vowing vengeance. Studies for the Chem Prelim due the next day were entirely forgotten. Vengeance was the paramount issue at the moment. Manning what cars they had, they scoured the campus looking for Sophomores. Any Sophomores. They spied two of them a short distance from the dorm. They were entirely unaware of the evening's incidents and serene and virtuous after a few hard hours of "dabbing" were on their way home. Suddenly a multitude of ferocious Frosh fell upon them, threw them into their car like so many sacks of meal and drove them way out in the country. There they were summarily dumped out and left to make their way back home as best as they could.

Continuing their search for more victims, they spied one of the Soph cars and gave chase. The Soph car eluded them for a while but it was finally cornered and surrounded by the Frosh.

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# SPORTING SECTION



## TECH NINE TURNS IN AN EASY VICTORY OVER MASS. STATE TEAM

Hard Hitting and Fast Base Running Assure Crimson and Gray Victory in Early Stages of Game

### PURRINGTON IS REPLACED BY TERRY IN FIFTH INNING—M. S. C. FREE WITH PASSES

Worcester Tech's baseball team turned back the Mass. State team at Amherst last Saturday by the comfortable score of 11 to 7. The fact that Tech made 11 runs on 12 hits contrasts sharply with the Northeastern game of one week previous in which Tech was unable to score a single run on nine hits.

After Mass. State had led off in the first inning with two runs, Tech suddenly came to life in the third inning and indulged in a five-run rally in which Malloy's double, singles by Leach and Gartrell, and several bases on balls were the main reasons of the scoring rampage.

Tech kept at its aggressive tactics in the fourth inning, scoring two more runs, chiefly because of the bases on balls which the Massachusetts State pitcher was handing out with such great good-will. In addition there was a long triple by Captain Bert Lanciault; this brought no little joy to the Tech team, for hits of such genus are rare for Crimson and Gray batters.

In the next inning the opposition came back at Tech but were unable to equal Tech's showing. A series of four singles endangered Tech's lead and Coach Bigler took Purrrington out of the game, replacing him with Hooker Terry. Terry was effective and stopped the damage. Three runs were scored in that inning.

After two scoreless innings, Tech broke out again in the eighth. In that inning they scored four runs to put

(Continued on Page 4, Col. 1)

## GOLF TEAM BEATS B. U. IN MATCH

### Tech to Play Providence in Their Next Engagement

Although the Tech Golf team has started off this season's schedule rather poorly, there is no doubt that a successful season is still in the offing. Captain Irwin Peterson, P. Cheatham, Backstrom, Kowalski and A. Anderson are all veterans of last year's competition and as soon as they fall into their stride many wins will most certainly be hung up. The only new man on the squad this year is Dick Merriam, a Freshman, who is indeed a strong addition to the team.

The first match was scheduled for April 27 with Holy Cross, but had to be called off because of rain. However, when this match did take place on May 2, Tech was beaten to the tune of 9-0. Not discouraged however, on April 29 Tech played M. I. T. in an exciting four-man duel which ended with M. I. T. the victor by a 4-2 margin. The third match showed some improvement when Tech tied the Bowdoin aggregation with three points to the credit of each side.

On Thursday, May 12, the team journeyed to Boston to take on B. U. The Tech men took things in their own hands and avenged a defeat pinned on them last year by winning 8-1. Captain Peterson lost a tough match at the eighteenth hole where his opponent beat him by a single stroke.

The next match will be May 16, when the Boynton Hillers stack up against Providence at Providence.

## S. A. E. LEADS IN INTERFRAT. B. B.

### L. X. A. and P. S. K. also Unde-feated but Scored Upon

Interfraternity baseball, the last of the intramural competitions, has been well under way for the past three weeks, and the leaders are beginning to shape up as the potential winners. The outcome of this sport will have quite an influence on the all-sport standing of the various teams, as at present, several teams are within a few points of each other and the final standing is as yet very uncertain.

In the games played last week L. X. A. defeated T. U. O., P. S. K. took over the Friars, A. T. O. defeated Phi Gam, S. A. E. beat Theta Chi, and T. U. O. gained a decision over the Friars. S. A. E. has established the best record up to date, in having won three games without a defeat, as well as not having been scored upon.

The standing of the teams follows:

	Won	Lost	Pct.
S. A. E.	3	0	1.000
L. X. A.	2	0	1.000
P. S. K.	2	0	1.000
T. X.	2	1	.667
A. T. O.	1	2	.333
T. U. O.	1	2	.333
P. G. D.	0	3	.000
Friars	0	3	.000

## TENNIS TEAM ADDS TO ITS LAURELS

### Squad Increases Its Victories to Five Straight Wins

By pinning a 6 to 3 setback on Middlebury last Tuesday afternoon and by repeating the performance against Providence College Saturday afternoon, Tech's tennis squad increased its unbroken string of victories to five.

Last Tuesday, Tech easily took the match; her better balanced forces producing the victory, as Middlebury's strength rested in her top-ranking players. Many of the matches were closely contested, however, but the No. 1 singles and doubles matches were the outstanding ones. Allan Flagg of Middlebury required 38 games before he finally beat Alber, Tech's No. 1 man. Flagg later paired up with Allen to defeat Alber and U. Corsini in a closely contested three-set match.

#### Summary:

Singles: A. Flagg (M) defeated Alber (T) 8-6, 4-6, 8-6; U. Corsini (T) defeated L. Robart (M) 7-5, 6-4; H. Carlson (T) defeated H. Sloper (M) 6-3, 6-4; C. Wilson (T) defeated R. Allen (M) 6-3, 6-4; W. Volkmar (M) defeated S. Palmer (T) 0-6, 6-2, 6-4; E. Sanderson (T) defeated H. Loomis (M) 6-0, 6-0. Doubles: A. Flagg and R. Allen (M) defeated M. Alber and U. Corsini (T) 3-6, 6-3, 6-4; H. Carlson and S. Palmer (T) defeated K. Sloper and L. Robart (M) 6-3, 6-4; C. Wilson and E. Sanderson (T) defeated W. Volkmar and H. Loomis (M) 6-2, 6-3.

Saturday Tech's netsters repeated Tuesday's performance, by taking two doubles and four singles, coming out on top. The No. 5 singles and No. 3 doubles were the features of this engagement, both of them going to three sets. Alber, Carlson, Wilson and Sanderson took their respective singles matches, while Wilson and Sanderson

## RHODE ISLAND IS BASEBALL VICTOR

### Ekes Out Win Over Tech Nine in a Ten-inning Game

Last Tuesday the Tech baseball team lost to the Rhode Island State team on Alumni Field by the score of 3 to 2. It was not until an extra inning had been played that Rhode Island was able to break a 2 to 2 tie.

If the Tech team had been able to come through at the crucial moments the Rhode Islanders would probably have found their record of no defeats marred by a defeat at the hands of Tech. Worcester filled the bases several times but was unable to get anything like a hit at those times. In both the first and second, the bases were filled, but it was not until the third that any scoring was done.

In the third Captain Lanciault hit a two-bagger, went to third on a pass ball, and scored when Koziol singled. This inning ended with two men on.

Rhode Island evened the score in the fourth. Hodgson received one of the five walks that Hooker Terry issued during the afternoon. He then stole second and went to third on a throw meant to hold him close to second, but which unfortunately went wild. Pitcher Martynick then helped to win his own game by lacing out a single that brought in Hodgson.

Tech's big guns roared rhythmically in the fourth as "Palook" Gartrell, Johnny Noreika, and Bert Lanciault singled, one after the other. But try as they might, the rest of the team could not produce another run, even with such a fine example to guide them. This one-run lead endured until the eighth inning, when Martynick scored another run, being helped around the bases by a single on his own part and an error on Tech's part.

After almost three hours of baseball, the game finally came to an end in the tenth inning. In the first half of that inning Ken Goff (whom our football team should remember), doubled to center field. Terry grew slightly wild at this point and walked two Rhode Island State men, including their pitcher, who had scored their two previous runs. This filled the bases. Terry rose to the occasion and struck out the next man to face him, but following came Barnatowich with his third single of the day. His hit to left brought in Goff with the winning run.

In Tech's half of the tenth, Koziol doubled after two were out. Johnny Tinker was sent in as a pinch hitter but he struck out, ending the game.

Terry proved somewhat more effective than the Rhode Island State pitcher. He allowed only eight hits and gave five bases on balls, while Martynick allowed nine hits and gave seven passes. Martynick struck out thirteen to Terry's ten. Both were somewhat wild, although they tightened up when they got into tight places.

and Palmer and Carlson won their respective doubles match.

#### Summary:

Singles: M. Alber (T) defeated A. Sullivan (P) 6-2, 6-2; P. Power (P) defeated Corsini (T) 6-0, 6-0; H. Carlson (T) defeated Alves (P) 6-4, 6-3; C. Wilson (T) defeated R. Barrette (P) 6-3, 6-3; L. Fitzgerald (P) defeated S. Palmer (T) 4-6, 6-2, 6-3; E. Sanderson (T) defeated F. Gorman (P) 6-3, 6-4. Doubles: Wilson and Sanderson (T) defeated Barrette and Gowan (P) 6-1, 6-2; H. Carlson and Palmer (T) defeated Alves and Fitzgerald (P) 6-4, 6-3; Power and Sullivan (P) defeated Alber and Corsini (T) 7-5, 2-6, 6-2.

## R. I. PLACES FIRST, W. P. I. SECOND, IN EASTERN INTERCOLLEGIATES

### Tech Loses First Place by the Narrow Margin of a Single Point—South Stars for W. P. I.

The Rhode Island State track team fought along side by side with Worcester Tech in the Eastern Intercollegiate last Saturday and then barely nosed out the Engineers at the tape to take the meet by a margin of one point, R. I. 45 1-2, W. P. I. 44 1-2. The weather for the meet was almost perfect and the rain which threatened in the morning failed to materialize. The heats in several events and the finals in the discus throw and shot put were held in the morning. Mass. State jumped into an early lead in these events by virtue of Foskett's first in the shot put and second in the discus. R. I. took second with a second and third in the shot and a fourth in the discus. W. P. I. was put into the winning by Kalista who took first in the discus. For the finals in the afternoon R. I. led in the number of men entered, ten of the Blue and White winning places in the morning heats. The Engineers were a close second with nine men eligible.

The first event of the afternoon was the hundred yard dash which "Sonny" South won, Sullivan being barely nosed out of second place by L. Smith of R. I. South collected his second first place of the day when he won the 220-yard dash in 22 2-5 seconds. In the 440-yard dash Harry Jensen started out at his usual fast pace and led the field until around the last bend. Here he seemed to falter and Krausche of R. I., followed closely by Fallon of Middlebury nosed him out to take first and second, respectively.

"Vinny" Buell lost his first mile race this year when "Red" Crawford of M. S. C. and Short of Middlebury beat him to the tape. Buell led for the first half mile and then Crawford assumed the lead which he kept to the finish. In the two-mile run Larry Granger was forced to drop out in the middle of the race and though Charley Frary tried hard he was unable to collect more than a fifth. This event and the shot put were the only ones in which Tech was unable to place.

Crawford of Mass. State collected his second first place of the meet in the half mile run. Harry Jensen was entered in this event also and he was up with the leaders all the way, finishing fourth. The thrill of the race was furnished by Nyquist who came up from the rear to third place. For a time it looked as though he was going to do better than that but Crawford and Fal-

lon of Middlebury succeeded in keeping in front of him.

George Lyman lost first place in the high hurdles by a few feet, and second place in the broad jump by a quarter of an inch, to Krausche of R. I. In the pole vault Ungerer of Tech was going great until he spiked himself in the hand. Before this accident he had made a jump of 11 feet 3 inches to get second place. M. Smith of Norwich won this event with a vault of 11 feet 8 3-4 inches and though he tried for a new meet record he was unable to make it.

In the last event of the day, the 220-yard low hurdles, Charley Egan was barely nosed out of second place when he got out of step on the next to the last hurdle. This was only the second time that Egan has run the hurdles and with a little more practice in judging his leaps he ought to make a sure winner for he has plenty of speed.

There were no meet records tied or broken. Gordon Whitcomb tied the Tech record of 5 feet 8 1-2 inches in the high jump with the best leap of his career in any meet.

Krausche of R. I. was individual high scorer of the meet with 13 points to his credit. He collected a first in the 440, another in the 220 low hurdles, and a second in the broad jump. For second high scoring honors there was a tie between South of Tech and Crawford of Mass. State. South placed first in the 100- and 220-yard dashes, while Crawford collected his ten points with a first in the mile and half mile.

After the meet was over there was a meeting of the association in the gym. The same officers were elected for next year. These officers are: P. R. Carpenter, Worcester Tech, President; F. D. Tootell, R. I. State, Vice-President; P. D. Baker, Norwich, Vice President; L. L. Derby, Mass. State, Secretary-Treasurer. Union has definitely withdrawn from the association and Amherst has been dropped since they have sent no representatives for two years. Since no other school but Tech has extended an invitation for next year the meet will probably be held here again. Worcester Tech has sponsored this meet every year since 1925.

#### The summary:

100-yard dash: F. South, W. P. I., first; L. Smith, R. I., second; E. Sullivan, W. P. I., third; C. Rowley, Norwich, fourth. Time, 10 2-5 seconds.

220-yard dash: F. South, W. P. I., (Continued on Page 4, Col. 3)



SOUTH (SECOND FROM LEFT) WINNING CENTURY IN EASTERN INTERCOLLEGIATE MEET.



## TECH MAN WINS M. I. T. FELLOWSHIP

**Leo D. Skuropat is Selected by  
Chas. A. Coffin Foundation**

Leo D. Skuropat, electric of the Class of '32, was elected as one of the eight graduates of American Colleges and Engineering Schools, to be granted fellowships for 1932-33 by the Charles A. Coffin Foundation. This fellowship will permit Mr. Skuropat to do research work next year on high voltage transmission at the Massachusetts Institute of Technology.

"Leo" who is President of the Cosmopolitan Club, is a student of an unusual type. Born in Krasnodar, Russia, he left that country in 1920 for South America. In Brazil, he got a job as a carpenter on the Parahyba power developments and it was there he became interested in electrical engineering. Through the assistance of Rear Admiral Newton A. MacCully, U. S. N., Leo was enabled to enter the Worcester Polytechnic Institute.

### MASS. STATE BASEBALL

(Continued from Page 3, Col. 1)

the game beyond the reach of the Mass. Staters. Terry, Leach, Gartrell and Malloy all helped in this attack. Massachusetts State College scored one run in each of the last two innings, but Tech's lead was never in danger.

#### WORCESTER TECH

	ab	r	h	p	a	e
Leach 2b	5	2	3	3	1	1
Gartrell 3b	3	1	2	1	3	2
Noreika lf	4	2	0	4	0	1
Lanciault ss	4	1	2	1	2	0
Hansen rf	5	0	1	0	0	0
Asp lb	5	0	0	9	0	0
Molloy c	4	1	2	6	0	0
Koziol cf	5	1	1	3	0	0
Purrrington p	0	2	1	0	1	0
Terry p	2	1	0	0	2	0
Totals	27	11	12	27	9	4

#### MASS. STATE

	ab	r	h	p	a	e
Frigard lf	6	1	1	2	0	0
Welch 2b	4	1	1	3	0	0
Bush ss	5	2	3	2	3	0
Hicks lb	5	1	3	10	2	0
Burrington rf	3	0	0	1	0	0
Sibson rf	2	0	0	0	0	0
Thompson cf	3	0	0	2	0	0
White 3b	5	1	0	0	3	1
Mitchell c	5	0	2	7	1	0
Cain p	4	1	3	0	5	1
Totals	42	7	13	27	14	2
Innings	1	2	3	4	5	6
W. P. I.	0	0	5	2	0	0
M. State	2	0	0	0	3	0

## SPECIAL TESTS ON LARGEST TURBO

**With Sudden Load Changes, the  
Machine Parts Soak up Heat**

The largest self-cooled turbo generator is undergoing many unusual tests at the East Pittsburgh Works of the Westinghouse Electric and Manufacturing Company before shipment to the Public Service of New Jersey. It rates 100,000 kv-a., 13.8 kv., at 1800 rpm.

As part of special tests, "stray load losses" in the 75,000 kw. unit are being measured directly—both for magnitude and distribution. Under sudden load changes, machine parts soak up heat so rapidly that there is no temperature rise for a moment; that is, the flow of heat from machine parts does not change instantly and the initial rate of change of temperature is a function of the change in heat input and the specific heat of the material. Simultaneously measuring the amount of heat stored up in various parts at extremely short time intervals, gives a set of curves from whose slopes can be figured the tell-tale "watts per pound" loss.

## RADIO CLUB HAS TEN OPERATORS

**Advanced Code Group Receives  
Operators' Licences**

Dwight Keeney, S. Q. W. Chin, Lester Libby, and J. E. Pirie, members of the Radio Club, all made dashes to Boston during the past two weeks and brought home the coveted "Green Ticket." The certificate or license bears upon its face the name of the holder and signifies to all that the Government of the United States licenses the holder to operate an Amateur Radio Station for the following two years.

During the spring recess, Alton R. Anderson, Ted Hammet and "Beans" Campbell obtained their licenses. Two other former members of the Advanced Code group, Carl Hammarstrom and Joe Johnson, obtained their licenses some time ago and so the nine men who composed the group now all possess licenses.

Of the marks available, the average scored by the men taking the examination was extremely high, being about ninety per cent. None of the men got a mark of less than eighty-five and several did better than ninety. The code test which is the stumbling block of many a license applicant, was passed with extreme ease. In fact, some of the men claimed the tests sounded so slow, they almost went to sleep copying it.

The credit for the one hundred per cent success of the group and the high marks obtained by them belongs to Alton R. Anderson, President of the Radio Club. No matter how busy or crowded his schedule, "Al" always found the time to guide the group, encouraging them on with their code work and personally instructing them in the theory.

Of special interest was the success of Stanley Chin in getting his ticket. Stan had been talking on and off about getting a license for the past three years or so and it was generally conceded among the club members, that talking would be the closest he would ever come to it. But he surprised them all by settling down in earnest at the beginning of the year and breaking through for his license with a perfect code score and a theory mark of ninety per cent.

At the meeting of the Radio Club last Tuesday, a tentative plan of the club's activities for the coming year was discussed. Various improvements will be made to the transmitter such as increased power, phone attachment, etc. It was also planned to arrange schedules with other colleges and communicate to each other, play by play, descriptions of athletic events participated in by Worcester Tech. For the games played at home, a low power portable transmitter could be set up right on the field, the plays transmitted to the Radio Shack in the E. E. building and from there relayed on to the interested college. Free message handling to all parts of the country will also be offered to the members of the faculty and the student body.

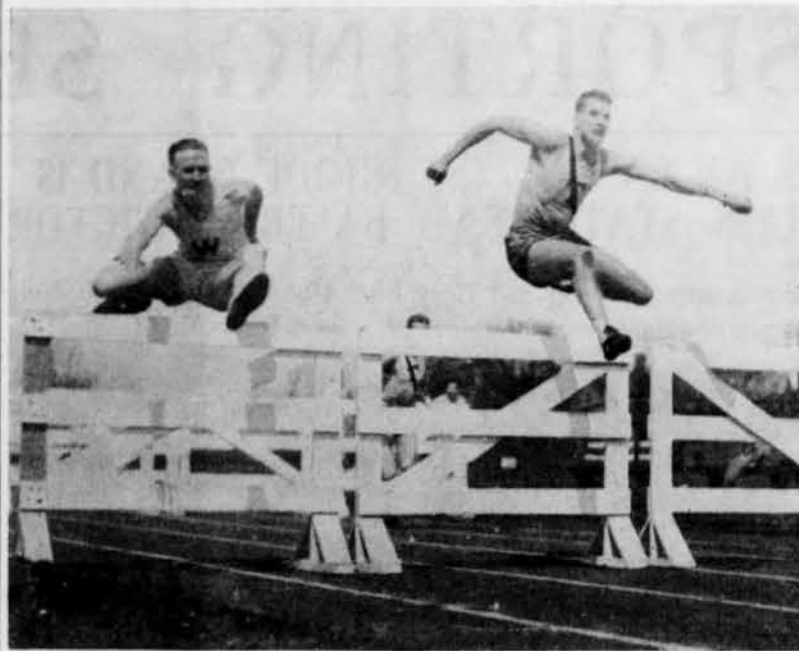
Saturday morning, prior to the influx of visitors for the Tech-at-home day, several of the radio club members busied themselves about the shack, getting it spick and span and hanging large signs and arrows pointing the way to the radio shack in conspicuous places. The reception committee was in charge of Carl Hammarstrom, who although he had spent a sleepless night wiring up the transmitter was on hand to do his duty. Visitors, on their en-

(Continued on Column 4)

### JUNIOR PROM

(Continued from Page 1, Col. 5)

B. Roberts, Emil C. Ostlund, C. Bradford Newell, Edward K. Allen, Arthur E. Smith and C. Stanley Brewer. This committee surely deserves credit for their ability to make this dance such a success.



LYMAN OF TECH AND DAUT OF TRINITY FIGHTING IT OUT IN  
HIGH HURDLES

### Eastern Intercollegiates

(Continued from Page 3, Col. 5)

first; W. Knight, R. I., second; E. Sullivan, W. P. I., third; G. Montgomery, Middlebury, fourth. Time, 22 2-5 seconds.

120-yard high hurdles: D. MacLean, Middlebury, first; G. Lyman, W. P. I., second; R. Daut, Trinity, third; R. Christy, Trinity, fourth. Time, 16 3-5 seconds.

Mile run: F. Crawford, M. S. C., first; D. Short, Middlebury, second; V. Buell, W. P. I., third; A. Arnold, R. I., fourth. Time, 4 minutes 39 seconds.

440-yard dash: K. Krausche, R. I., first; J. Fallon, Middlebury, second; H. Jensen, W. P. I., third; J. Chalmers, Middlebury, fourth. Time, 51 4-5 seconds.

Two-mile run: J. Sears, Middlebury, first; H. Miner, R. I., second; D. Caird, M. S. C., third; E. Morris, R. I., fourth. Time, 10 minutes 12 seconds.

880-yard run: F. Crawford, M. S. C., first; J. Fallon, Middlebury, second; O. Nyquist, W. P. I., third; H. Jensen, W. P. I., fourth. Time, 2 minutes 3 3-5 seconds.

220-yard low hurdles: K. Krausche, R. I., first; D. MacLean, Middlebury, second; C. Egan, W. P. I., third; R. Roberts, Middlebury, fourth. Time, 25 2-5 seconds.

Discus throw: G. Kalista, W. P. I., first; 120 feet 8 1-4 inches; C. Foskett, M. S. C., second, 119 feet 7 1-2 inches; W. Lemaire, Norwich, third, 115 feet; R. Dimoch, R. I., fourth, 111 feet 5 inches.

Shot put: C. Foskett, M. S. C., first, 40 feet 3-4 inch; H. Dreyer, R. I., second, 38 feet 5 1-4 inches; C. Mordough, R. I., third, 38 feet 3 1-4 inches; W. Lemaire, Norwich, fourth, 38 feet, 2 1-4 inches.

Hammer throw: H. Dreyer, R. I., first, 142 feet 6 inches; C. Modliszewski, R. I., second, 142 feet 5 inches; G. Kalista, W. P. I., third, 135 feet, 1 inch; H. Narcessan, R. I., fourth, 130 feet 11 inches.

Javelin throw: L. Smith, R. I., first, 164 feet; L. Lovell, Middlebury, second, 162 feet 2 1-2 inches; tied for third, G. Kalista, W. P. I., and E. Erkila, Middlebury, 156 feet, 3 3-4 inches.

Pole vault: M. Smith, Norwich, 11 feet 8 3-4 inches, first; E. Ungerer, W. P. I., second, 11 feet 3 inches; tied for third, A. Convey, Trinity, and N. Capalbo, R. I., 11 feet.

High jump: G. Whitcomb, W. P. I., first, 5 feet 8 1-2 inches; G. Lang, Norwich, second, 5 feet 7 inches; tied for third, A. Ryan, M. S. C., and R. Daut, Trinity, 5 feet 6 1-2 inches.

Broad jump: M. Brown, Middlebury, first, 20 feet, 8 1-4 inches; K. Krausche, R. I., second, 20 feet, 7 1-2 inches; G. Lyman, W. P. I., third, 20 feet 7 1-4 inches; R. Daut, Trinity, fourth, 19 feet 11 1-4 inches.

Scores by schools: Rhode Island State 45 1-2 Worcester Tech 44 1-2, Middlebury 34 1-2, Mass. State 21 1-2, Norwich 12, Trinity 7.

### RADIO CLUB

(Continued from Column 2)

trance were handed slips of paper and pencil and asked to write out any message they wished. A length of wire connecting a buzzer system had been strung across the room and the messages filed by the visitors were transmitted over this wire. They were copied down at the receiving end and delivered back to the sender as a memento of his or her visit to the shack. Several of the visitors grouped about each end of the wire and through the medium of the operator stationed there, amused themselves immensely sending messages back and forth to each other.

Due to the fact that the transmitter had not received final adjustments for calibration purposes, as required by law, messages could not be transmitted out to other cities. However, for next Tech-at-home Day, schedules will be arranged with Boston, Springfield and New York.

There are now ten licensed operators in the Radio Club and several more are budding. Inspired by the marked success of the now dissolved Advanced Code Group, a new group of license hopefuls has been formed and are being taught radio from the ground up. Alton Anderson is again taking on the theory instruction while Joe Johnson is teaching the code to the beginners.

The group meets for theory in Room B of the E. E. building, Mondays, Wednesdays and Fridays from 6:35 to 7:30 P. M. Visitors are cordially invited at all times.

## INVISIBLE RAYS ROUT BURGLAR

**Westinghouse Develops a New  
Means of Crime Prevention**

In Detroit recently, a "burglar" was "shot" and at the same instant his picture was taken when he tried to move a "jewel box" protected by an invisible or ultra-violet ray. The attempted "burglary" was a demonstration by Dr. Harvey C. Rentschler, Director of Research, Westinghouse Lamp Company, to explain to members of the Michigan Section of the Illuminating Engineering Society the use of photo electric cells or "electric eyes" in industry. The demonstration was made in the auditorium of the Detroit Edison Company.

To illustrate the ability of the invisible or ultra-violet ray, Science's latest contribution to law-enforcement authorities, Dr. Rentschler projected these black rays around a theoretical treasure in the jewel box and showed that the rays were invisible. He then impersonated the burglar and, when he attempted to remove the box, the darkened room was immediately ablaze with light; an alarm sounded the instant he passed through these invisible

beams. By the same act he set off a flashlight bulb synchronized to a camera hidden in the wall which took his photograph; a gun aimed at the box was discharged at the same time. While Dr. Rentschler was explaining how infra-red rays permitted the taking of pictures in the dark, the negative was being developed, a lantern slide made, and projected on the screen to the audience in twenty minutes.

It is predicted that with the invisible ultra-violet rays, it will be possible for jewelers, bankers and other custodians of valuable properties, to greatly add to the security of their charges. These ultra-violet rays are invisible both in lighted and darkened rooms and therefore it is impossible for the intruder to move about without being detected, as these rays can be placed at various angles in the room. They could be made to operate a barrage of tear gas, set off silent alarms, etc. In other words, the intruder is put completely at the mercy of this ingenious device.

There were three demonstrations of this new protective system. In explaining these demonstrations, Dr. Rentschler said his reason for first sending the invisible light message was to show how an educated burglar might fool the device by turning the beam of his flashlight on the photo-electric cell or "electric eye" while he was interrupting the original beam to get the jewel box. The next message was to fool the infra-red cell by using a mazda light, the ordinary light used for general illumination, shining on the photo-tube while he was interrupting the beam of the infra-red light, as there is sufficient infra-red light produced in the mazda lamp to operate the cell. The third was to show how impossible it would be for the burglar to remove the jewel box due to his inability to produce the invisible ultra-violet light.

At the meeting of the Illuminating Engineering Society, Dr. Rentschler introduced, for the first time, his new hot cathode positive column zinc arc lamp. This lamp is the latest development of the Westinghouse Lamp Company's Research organization, and, according to Dr. Rentschler the zinc arc will find special practical uses because of its peculiar strong red radiation, as zinc gives very strong red and rather strong blue lines but no yellow or green. It will be of special use when it is essential to have a red light in the absence of green and yellow as for colored photography in the red. It may eventually have great possibilities for decorative red lighting or it may find use in combination with other vapor lamps, or supply the red missing in the other sources. The proper combination of zinc with mercury (in separate bulbs) will produce a good quality of white light.

"As the automatic sorting of articles," Dr. Rentschler continued, "by the use of the photo-electric cell progresses, no doubt important uses for a good source of red light will be found. For example, if we wish to grade certain articles with a red color from the same thing—but say green, as for example, if you wish to sort automatically, bright red apples from green, it would be far better to use red light rather than white light due to the greater contrast. Green apples would appear black under the zinc arc light and the ripe ones would appear a vivid red. The same would be true in the sorting of green from ripe or red cherries.

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**SOPHS VS. FROSH**

(Continued from Page 2, Col. 5)

The driver of the Soph car started forward, driving most of the Frosh out of his path. But one or two Frosh, bolder than the rest, clung tenaciously to the front bumper, refusing to be driven off. The driver of the car, fearing to run the Frosh down, to his credit, stopped it. Immediately the Frosh pulled up the hood of the car and disconnected the ignition system, preventing any chance of a getaway. Not satisfied with that, they let the air out of all the tires. Then they attempted to get at the Sophs within.

However, only one door was open and it was guarded by a huge Soph, a member of the Tech eleven. The Frosh were not daunted so much by his bulk as by the wrench which he swung about viciously.

Matters were deadlocked until the arrival of a motorcycle cop put the affair to an end. It speaks well for the participants of the scrap, both Frosh and Soph, that one lone police officer, merely by virtue of his office, could put an end to the situation by the use of words only. Perhaps that is why the police force of the city as a whole look more or less tolerantly on the antics of the Tech students. They know that their office will be respected

at any and all times by Tech students. Under the protecting presence of the motorcycle cop the Sophs clambered out of their fortification and before the gleeful gaze of the assembled Frosh took turns at the hand pump, inflating their four tires.

The next day the entire Soph Class massed together on the campus to await the exit of the Frosh from their Chem Prelim. A pitched battle with no quarter asked or given was eminent. However at this crucial point, the faculty intervened. At their request, the Frosh and Sophs called a truce which will probably be permanent as both sides have declared that although they reserve the right of retaliation, they will take no further aggressive action.

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**MR. RICHARD A. BETH TO  
RETURN TO W. P. I.****Gives Impressions of Europe**

Mr. Richard A. Beth of the class of '27, and afterward an instructor in the Physics Department for two years before going to Germany for advanced study in 1930, will return to the staff of the Physics Department next year. Writing from on board the "Monte Rosa," then passing through the Bosphorus, he says:

"Perhaps I had better give you a short sketch of what I have been doing. . . . I handed in my dissertation (at Frankfurt University) on February 18 and took my exam on February 29,

thus becoming "Her Doktor" with Mathematics (pure) as a major and Theoretical and Experimental Physics as minors. . . . The next few weeks I spent closing up my affairs in Frankfurt and saying "auf weiderschen" to my friends. I didn't realize that I had gotten to know so many people there.

"I wanted to get a rest for a few weeks, and so, after looking over the possibilities, I decided to take this Mediterranean trip, which was very much cheaper than anything else like it I could see. The price is 350 marks—less than \$100—for eighteen days in the Mediterranean. We started from Genoa on the eighth of April, visited Naples, Tunis, Malta, and are now about to sail through the Bosphorus and back before landing at Constantinople.

After two days there we go to Athens, Olympus, Delphi, Corfu and finally land at Venice on the twenty-sixth. At every point there are very well organized land trips, so that, besides the sea trip, there is a great deal of scenic and historic interest presented.

"Constantinople presented a most striking sight, because of its many minarets. Everywhere in this Old World the striking things, the things that you must see, have to do either with war or religion: forts and battlefields and ruined castles and statues of rulers and generals or churches and graveyards and statues of bishops and saints. They say that we Americans lack depth, but what they sometimes mean (not always) is that we are not so much dedicated to these things.

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## MASQUE

(Continued from Page 1, Col. 5)

vel. The climax of the skit is brought on when friend husband turns out to be the total stranger accosted by Cal for some advice on making the women.

Moving along smoothly, the next number, selections on a musical saw, was rendered by George A. Stevens. The subtle haunting notes of this instrument, bringing back memories of carefree, gaily-whistling boyhood days, were well brought out by Mr. Stevens.

The next number on the program was another skit entitled, "The Right Thing To Do." Everett G. Sanderson, in the female role, made quite a dainty little lady. Like the eternal femme, her slippers fitted too tight for comfort and the curtain lifted showing Sandy massaging his aching little feet, regaling his audience with a goodly view of their alluring charms. One would never have thought that those self-same nether extremities had kicked many a soccer ball to victory. As it was, Sandy made a perfect picture of a damsel in distress. Gordon Lincoln, the gay young blade, strolling by, chivalrously offers his assistance. Perhaps after gazing at those toothsome legs and well-shaped figure he was inspired by other motives than pure chivalry. But the girl turns out to be a book agent and after completely turning her would-be-knight's head sells him a high-priced volume on etiquette. However, after selling him the volume she graciously accepts a date with him and the couple make a pleasing exit as arm in arm they stroll off the stage.

Frank F. Dodge, Carroll M. Johnson and Wesley B. Reed, the Masque trio, then warbled a few numbers which brought enthusiastic applause for encores. The encores rendered, the boys took their bow and made way for the next number, a comedy skit entitled "His Big Moment."

The curtain lifted showing the interior of the old home back on the farm. John S. Maloney all bedecked in chin whiskers, side burns, hick attire and a "by-cracky" accent and his wife, Maria Dinkleberry, with wig and Mother Hubbard gown, placidly knitting, were an extremely funny sight and as the curtain lifted on them gales of laughter swept the audience for a full minute. Maria Dinkleberry was played by Fred Whitford.

After soundly berating his shrewd wife, for her habit of sitting up night after night, hoping for the return of her long lost son, Jimmie, Joshua goes off to bed. Maria steps out to get some more knitting and while she is gone, Jimmie (Frank Crowley), accompanied by his wife (William E. Wyman), enters. Having brought no gifts, the prodigal son, at the suggestion of his practical wife, goes out to fetch an armful of wood. He returns to find his mother in excited conversation with his wife. His mother, on seeing him, lets out a pathetic and heartfelt "Jimmy, my boy," and runs to call her husband. Joshua dragged out of his warm bed, tramps in wearing a long white night shirt from which protruded two bare shanks. Spying his son, who still held his armful of wood, he strides over to him, fixes him sternly with his eye and demands to know why it took him twenty years to fetch the wood.

After a ten-minute intermission, the second part of the show was presented. A burlesque entitled, "Tramp, Tramp, Tramp."

The curtain arose showing as motley a collection of tramps, hoboes, bums and what nots as could be conceived. Gathered for their annual convention, they sprawled about indolently on boxes, barrels, egg crates, etc., and singing "Auld Lang Syne." They presented such a funny tableau the audience rocked with laughter.

Mokey, the Prime Minister, arises and in keeping with the solemnity of the occasion launches forth into impassioned oratory. But the hoboes cut his speech-making short and after demanding to know why their king is absent, decide to go on with the business of

the convention without him. However, at that critical moment, Mokey shouts out, "Behold, here comes our king, Oswald III."

The hoboes hastily arise and peer intently in the direction pointed by Mokey, as the king (John H. Porteus), enters the stage from the opposite direction. The king wears a gray top hat, carries a stick over his shoulder with the traditional handkerchief-clad bundle dangling from the end, and wearing unbelievably travel-stained clothes.

The king mounts his throne, an old flour barrel, and the hoboes celebrate his arrival by singing, "Hail, Hail, the Gang's All Here." The song is followed by several others, all of them being of old vintage as "Let Me Call You Sweetheart," "Good-bye Dolly Gray, etc."

The business of the convention is then taken up and is replete with mirth provoking bon-mots which crackled across the stage continuously. In the midst of their session, a stranger gains admittance by virtue of a quart bottle of pre-war scotch which he claims to possess. The stranger is Booth McGee, tragedian extraordinary, stranded with his troupe and lured to the hoboes' camp by the aroma of coffee and beans exuding therefrom.

If the costume of the hoboes brought laughter, that of Booth McGee, played by Edmund A. Perry, brought hysterics. Long wavy locks of hair, crowned by a tall battered opera hat, long frock coat with a red bandana handkerchief hanging from the coat-tail and shod in incredibly large shoes, Perry scored a distinct hit. In return

for a meal he agrees to have his troupe put on a performance for the hoboes. As he is departing he is called back to bring out his bottle of scotch but much to the disgust of the hoboes, the bottle is non-existent, it being merely a ruse to crash the convention.

While Booth McGee is getting his troupe ready the hoboes are entertained by some of their own talent who sang popular songs with all the hoboes joining in the chorus.

The various songs were led by Wright H. Manvel, Gordon S. Swift, Carroll M. Johnson and Everett G. Sanderson.

Booth McGee then returns and the members of his troupe perform. First there was the well-known Edward E. Hayden and his always popular cowboy songs. Mike Sodano and Edson H. Osborne followed with a rhythmic jig.

Their jig concluded, the two, accompanied by Fred Whitford on the guitar, crooned some songs. Then Osborne gave a tap dance all by his lonesome.

The last number of the evening was a skit, "Mose and Sam." This skit was written personally by Mr. Heald, the show's director and can best be described as one continuous laugh.

Before we close we must say a word about the unsung hero of the show, Humphrey J. Wrin, the pianist. Loyal plying away on his ivory keys, down beneath the footlights, he is the recipient of scant praise and gets all the blame if anything goes wrong.

We also owe a tribute to the efficient and hardworking director of the show, Mr. Jack Heald.

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7 out of 10 smokers inhale  
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3 inhale unknowingly

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